

Amendments To The Claims:

Please amend the claims as shown.

1 – 7 (canceled)

8. (new) A method for monitoring a technical device, comprising:
detecting a plurality of operational signals of the technical device;
determining a mean operational signal value using at least some of the operational signals;
determining a normalized operational signal for at least one operational signal where the normalized operational signal contains a deviation of a current value of the operational signal from the mean operational signal value; and
comparing the normalized operational signal with a reference value range of the relevant operational signal.

9. (new) The method as claimed in claim 8, wherein the reference value range is the range between a lowest and a highest value of the normalized operational signal.

10. (new) The method as claimed in claim 9, wherein the lowest or highest value of the normalized operational signal are determined from actual measured values of the relevant operational signal.

11. (new) The method as claimed in claim 10, wherein the lowest and highest value of the normalized operational signal are determined from actual measured values of the relevant operational signal.

12. (new) The method as claimed in claim 11, wherein the lowest or highest value of the normalized operational signal are determined using a statistical distribution function.

13. (new) The method as claimed in claim 12, wherein the lowest and highest value of the normalized operational signal are determined using a statistical distribution function.

14. (new) The method as claimed in one of the claims 13, wherein the reference value range is determined and the normalized operational signal is compared with the current reference value range while the technical device is operating.

15. (new) The method as claimed in one of the claims 14, wherein the reference value range is determined multiple times while the technical device is operating and the normalized operational signal is compared with the current reference value range for each determination of the reference value range.

16. (new) The method as claimed in one of the claims 15, wherein the current value of the operational signal is compared with a predetermined monitoring threshold value.

17. (new) The method as claimed in claim 16, wherein a corresponding mean operational signal value is determined for each type of operational signals.

18. (new) The method as claimed in claim 17, wherein the technical device is a gas turbine engine.

19. (new) The method as claimed in claim 18, wherein the operational signals are selected from the group consisting of: a temperature signal, a pressure signal, a electrical current signal, and an electrical voltage signal.

20. (new) The method as claimed in claim 19, wherein the operational signals are combustion chamber burner flame temperature signals.

21. (new) A method for monitoring a combustion chamber burner flame temperature of a gas turbine engine, comprising:

detecting an operational signal of the gas turbine engine that corresponds to the combustion chamber burner flame temperature of the gas turbine engine;

determining a mean operational signal value of the detected operational signal;

determining a normalized operational signal based on the detected operational signal where the normalized operational signal contains a deviation of a current value of the operational signal from the mean operational signal value;

comparing the normalized operational signal with a reference value range of the detected operational signal where the reference value range is determined multiple times while the gas turbine engine is operating and the normalized operational signal is compared with the current reference value range for each determination of the reference value range; and

comparing the current value of the detected operational signal with a predetermined monitoring threshold value.